

AEMC Simple Logger® II Data Loggers

NEW

- Compact size, battery operated
- Easily installed, operational in seconds
- TRMS measurement for accuracy on distorted waveforms
- Programmable alarm setpoints & triggers
- 5 LED indicators display logger status
- Choice of data storage modes
- Stores >240k measurements in non-volatile memory
- DataView software displays & analyzes real-time data on a PC

L322

L562

L642


MODEL	L101	L102	L111	L261	L322	L432
Channels	One	Two	One	One	One	Two
Input Connector	BNC		Recessed banana jacks		Removeable screw term block	
Measurement Range	0-1V AC (probe dependent)		0-1A AC (probe dependent)		±20mA DC	±100mV/±1V/±10V
Resolution	0.1mV		0.1mA		0.01mA	0.1mV/1mV/10mV
Accuracy (50/60Hz)	10-50mV: ±0.5% of Rdg ±1mV		10-50mA: ±0.5% of Rdg ±1mA		±0.25% of Rdg±0.05mA	±0.5% of Rdg ±1mV
	50-1000mV: ±0.5% of Rdg ±0.5mV		50-1000mA: ±0.5% of Rdg ±0.5mV		50-600V: ±0.5% of Rdg ±0.5mV	
Sample Rate	64 samples/cycle				Max. 8 samples at storage interval	
Storage Rate	Programmable from 125mS to 1 day					
CAT III Rating	50V			300V	50V	

MODEL	L562	
Channels	Two	
	Current Channel	Voltage Channel
Input Connection	BNC	Banana jacks
Input Range*	0 to 1VAC (use current probes with a voltage output)	0 to 600VAC/DC
Resolution	0.1mA	0.1V
Accuracy (50/60Hz)	10-50mV: ±0.5% of Rdg ±1mV 50-1000mV: ±0.5% of Rdg ±0.5mV	5-50V: ±0.5% of Rdg ±1V 50-600V: ±0.5% of Rdg ±0.5V
Measurement Input	5Vrms (±7.07V pk-pk max)	1000V
Sample Rate	64 samples/cycle	
Storage Rate	Programmable from 125mS to 1 day	
CAT III Rating	600V	

MODEL	L642
Channels	Two
Input Connection	Mini TC
Measurement Range	°F (°C)
J	-346 to +2192 (-210 to + 1200)
K	-328 to +2501 (-200 to + 1372)
T	-418 to +752 (-250 to + 400)
N	-328 to +2372 (-200 to + 1300)
E	-238 to 1742 (-150 to + 950)
R	32 to 3212 (0 to 1767)
S	32 to 3212 (0 to 1767)
Resolution	0.1° C/F up to 1000° C/F, 1° above 1000° C/F
Accuracy	0.1% to 0.2% + 0.6° to 1°, depending on the range & T/C type
Sample Rate Max.	8 samples at storage interval
Storage Rate	Programmable from 5 sec to 1 day
CAT III Rating	50V

SPECIFICATIONS

Memory	240,000 measurements (512KB)
Recording Length	15 minutes to 8 weeks, programmable using DataView®
Storage Modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)
Communication	USB 2.0 optically isolated
Power	2 x 1.5V AA-cell Alkaline batteries
Battery Life	100 hrs to >45 days, depending on storage rate
Dimensions	5.38 x 2.75 x 1.28" (136 x 70 x 32mm)
Temperature	-10 to 50°C operating

ORDERING INFORMATION

AE/2126.02	Simple Logger® II Model L101 (TRMS, 0 to 1VAC, 1 channel)
AE/2126.03	Simple Logger® II Model L102 (TRMS, 0 to 1VAC, 2 channel)
AE/2126.04	Simple Logger® II Model L111 (TRMS, 0 to 1AAC, 1 channel)
AE/2126.05	Simple Logger® II Model L261 (TRMS, 0 to 600VAC/DC, 1 channel)
AE/2126.06	Simple Logger® II Model L322 (4-20mA DC)
AE/2126.07	Simple Logger® II Model L432 (±100mV, 1V, 10VDC, 2 channel)
AE/2126.35	Simple Logger® II Model L562 (TRMS Voltage & Current)
AE/2126.08	Simple Logger® II Model L642 (Thermocouple Temperature)
AE/2126.01	Simple Logger® II Model CL601 (Clamp-On, TRMS Current, 0 to 600A, 1.65" jaw opening)

ACCESSORIES

AE/1201.51	AC/DC Current Probe Model SL261 (10A@100mV/A, 100A@10mV/A, BNC)
AE/2115.82	AC Current Probe Model MN261 (24A@100mV/A, 240A@10mV/A, BNC)
AE/1200.72	AC Current Probe Model MR461 (60A@10mV/A, 600A@1mV/A, BNC)
AE/1200.73	AC Current Probe Model MR561 (150A@10mV/A, 1500A@1mV/A, BNC)
AE/2113.49	AC Current Probe Model SR661 (10A@100mV/A, 100A@10mV/A, 1000A@1mV/A, BNC)
AE/2110.90	AC Current Probe Model JM861 (30A@10mV/A, 300A@1mV/A, 3000A@0.1mV/A, BNC)
AE/2140.62	Test Lead Pair, 5 ft w alligator clips, 600V CAT IV, 15A

CLAMP-ON AC LOGGER

Simply clamp-on and start recording, no exposed wires to connect.

- 50/400/600A TRMS ranges
- One button operation
- Alarm function
- 5 LED indicators display logger status
- Optically isolated USB 2.0 output
- Includes DataView® software for data storage, real-time display, analysis & report generation
- 300V CAT IV, 600V CAT III


CL601

Each Simple Logger® II includes USB cable, DataView CD, batteries & manual.

Extech Sound Meters

Datalogging Sound Level Meter

- ANSI Type 2 meter with 16000 record memory
- Large LCD with fast 50 segment bargraph
- Time stamped data, Max Hold function
- RS-232 & recorder outputs
- Tripod mounting

407764 ▶



SPECIFICATIONS

Range:	30-130dB
Basic Accuracy:	±1.5dB
Weighting:	A & C
Response Time:	Fast, slow
Dimensions:	10.4 x 2.8 x 0.8" (265x72x21mm)

ORDERING INFORMATION

Complete with microphone, wind cover, Windows software, serial cable, AA batteries & carrying case.

EX/407764	Datalogging Sound Level Meter
EX/144117	120V AC Adapter
EX/407764-EXT	Microphone Extension Cable, 15ft (4.7m)
EX/407744	94dB Sound Calibrator
EX/407766	94/114dB Sound Calibrator

Sound Level Monitor

NEW

- Extra large display with bargraph
- Adjustable high or low limit
- OVER display
- External alarm output
- Time stamped Max reading memory
- Meets ANSI Type 2
- Wall, bench or tripod mounting

▶ SL130



SPECIFICATIONS

Frequency:	31.5Hz - 8kHz
Ranges:	30-80dB, 60-110dB, 80-130dB
Resolution:	0.1dB
Weighting:	A & C
Response Time:	Fast (125ms), Slow (1s)
Dimensions:	8.75 x 7.1 x 1.25" (22x18x3.2mm)

ORDERING INFORMATION

Complete with swivel microphone, wind cover, AA batteries

EX/SL130G	Sound Level Monitor with 110V AC Adapter
EX/SL125	Microphone Extension Cable, 15ft (4.7m)
EX/SL123	AC Alarm Relay Module, 9ft cable
EX/SL124	DC Alarm Relay Module, 9ft cable
EX/TR100	Tripod

Extech Clamp-On Power Datalogger

- 1000A Clamp measures 1Ø & 3Ø power to 600kW
- Display True Power, Apparent Power, Power Factor, True RMS Voltage & Current, Resistance and Frequency
- Dual display of kW+PF, kVA+PF, V+A, A+Hz or V+Hz
- Clamp jaws open to 1.8" (46mm)
- Data Hold and Auto Power Off
- Built-in recorder datalogs up to 4000 readings
- 25 point data memory viewable on the LCD display
- Full function display on large 4-digit LCD with fast 40 segment bargraph, Peak Hold and Min/MAX
- CAT III-600V; CE
- Includes 9V battery, alligator clips, test leads, case, RS-232 module, Windows compatible software and cable

382068 ▶



SPECIFICATIONS

	Range	Resolution	Basic Accuracy
True Power:	600kW	10W	±(2%rdg+5d)
Apparent Power:	1000kVA	10VA	±(2%rdg+5d)
Peak Current:	1000A	0.1A	±(6%rdg+10d)
Peak Voltage:	600V	0.1A	±(6%rdg+10d)
AC Current (40-500Hz):	1000A	0.1A	±(1.5%rdg+5d)
DC Current:	1000A	0.1A	±(1.5%rdg+5d)
AC Voltage (40-500Hz):	600V	100mV	±(0.5%rdg+5d)
DC Voltage:	600V	100mV	±(0.5%rdg+5d)
Frequency:	5kHz	0.1Hz	±(0.5%rdg+5d)
Resistance:	10kΩ	1Ω	±(1%rdg+5d)
Continuity:	Beeper when <50Ω		
Dimensions/	10.2x3.7x1.8" (260x93x45mm)/		
Weight:	15.9oz (450g)		

ORDERING INFORMATION

EX/382068	Clamp-on Power Datalogger kit with software
EX/382068-NIST	Clamp-on Power Datalogger kit with software & NIST certificate
EX/480172	AC Line Splitter, 3-prong plug with x1 & x10 postions, live voltage indicator

480172 ▶



Fluke Clamp Meters

Seven new models offer an impressive array of innovative features with current ranges up to 1000A. Choose the model that matches the jobs you do.

- Auto shut-off maximizes battery life so the meter works when you need it
- Small body and jaws fit perfectly in your hand and into tight places
- Large, backlit display (on most models) is easy to see
- In-rush current function (on most models) for measuring starting current for motors, lighting, etc.
- Improved low current measurement accuracy from new microprocessor technology
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Handy display hold keeps measurements on the display
- CAT III – 600V Rating



337 ▲

321 ▲



SPECIFICATIONS

	Fluke 333	Fluke 334	Fluke 335	Fluke 336	Fluke 337	Fluke 321	Fluke 322
AC amps							
Range	0-400.0A	0-600.0A	0-600.0A	0-600.0A	0-999.9A	0-400.0A	40.00A/400.0A
Accuracy	2% ± 5 counts (50/60 Hz)	2% ± 5 counts (50/60 Hz)	2% ± 5 counts (50/60 Hz)	2% ± 5 counts (10-100 Hz) 6% ± 5 counts (100-400 Hz)	2% ± 5 counts (10-100 Hz) 6% ± 5 counts (100-400 Hz)	1.8% ± 5 counts (50/60Hz)	1.8% ± 5 counts (50/60Hz)
Crest factor	-	-	2.4 @ 500A 2.0 @ 600A add 2% for C.F.>2	3 @ 500A 2.5 @ 600A add 2% for C.F.>2	3 @ 500A 2.5 @ 600A 1.42 @ 1000A add 2% for C.F.>2	-	-
AC response	Averaging	Averaging	True-rms	True-rms	True-rms	Averaging	Averaging
DC amps							
Range	-	-	-	0-600.0A	0-999.9A	-	-
Accuracy	-	-	-	2% ± 3 counts	2% ± 3 counts	-	-
AC volts							
Range	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V
Accuracy	1% ± 5 counts (50/60 Hz)	1% ± 5 counts (50/60 Hz)	1% ± 5 counts (50/60 Hz)	1% ± 5 counts (20-100 Hz) 6% ± 5 counts (100-400 Hz)	1% ± 5 counts (20-100 Hz) 6% ± 5 counts (100-400 Hz)	1.2% ± 5 counts (50-400Hz)	1.2% ± 5 counts (50-400Hz)
AC Response	Averaging	Averaging	True-rms	True-rms	True-rms	Averaging	Averaging
DC volts							
Range	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	-	400.0V/600V
Accuracy	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	-	1% ± 5 counts
Ohms							
Range	0-600.0Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-400.0Ω	0-400.0Ω
Accuracy	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1% ± 5 counts	1% ± 5 counts
Continuity	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω
Frequency							
Range	-	-	-	-	5-400 Hz	-	-
Accuracy	-	-	-	-	0.5% ± 5 counts	-	-
Trigger Level	-	-	-	-	10-100 Hz ≥ 5A 5-10 Hz ≥ 10A 100-400 Hz ≥ 10A	-	-
Inrush Integration time	-	100 mS	100 mS	100 mS	100 mS	-	-
MIN/MAX	-	-	-	-	●	-	-
Backlight	-	●	●	●	●	-	-
Display Hold	●	●	●	●	●	●	●
Size	9.4 x 3.1 x 1.6"			9.9 x 3.1 x 1.6"		7.5 x 2.5 x 1.4"	
Max. Wire Diameter	1.2"			1.2"		1"	

Operating Temperature: -10 °C to 50 °C (14 °F to 122 °F)

Temperature De-rating: Add 0.1 x specified accuracy for each °C above 28 °C or below 18 °C

Altitude: 2,500 meters for 330 series, 2000 meters for 320 series

Battery Life: Alkaline - approximately 150 continuous hours for 330 series, 100 hours for 320 series

Storage Temperature: -40 °C to 60 °C (-40 °F to 140 °F) for 330 series, -30 °C to 60 °C (-22 °F to 140 °F) for 320 series

Warranty: 3 years on 330 series, 2 years on 320 series

ACCESSORIES

Included accessories

Soft Carrying Case, TL75 Test Leads, (2) AA Alkaline Batteries, Coated Instruction Card & Safety Information Sheet

ORDERING INFORMATION

Fluke 321	AC Clamp Meter
Fluke 322	AC/DC Clamp Meter
Fluke 333	400A AC Averaging Clamp Meter
Fluke 334	600A AC Averaging Clamp Meter
Fluke 335	400A AC TRMS Clamp Meter
Fluke 336	600A AC/DC TRMS Clamp Meter
Fluke 337	1000A AC/DC TRMS Clamp Meter

Yokogawa Clamp-On Testers

AC Current CL100 Series

- AC Current to 2000A
- AC Voltage Measurement
- Resistance / Continuity (CL130 & CL150)
- Data Hold
- IEC CAT III

CL130 ▶



AC/DC Current CL200 Series

- AC & DC Current to 2000A
- AC & DC Voltage Measurements
- Resistance / Continuity
- TRMS & Frequency (CL235 & CL255)
- Peak / Data Hold

CL250 ▶



AC Leakage Current CL300 Series

- AC Current to 1000A
- AC Leakage with 10 μ A Resolution
- Wide Jaw Opening
- AC & DC Recorder Outputs (CL360)
- Peak / Data Hold

CL360 ▶



ORDERING INFORMATION

YE/CL120	200A AC Clamp-On Tester
YE/CL130	600A AC Multi-Function Clamp-On Tester
YE/CL135	600A AC TRMS Multi-Function Clamp-On Tester*
YE/CL150	2000A AC Multi-Function Clamp-On Tester
YE/CL220	300A AC/DC Clamp-On Tester
YE/CL235	600A AC/DC TRMS Multi-Function Clamp-On Tester
YE/CL250	2000A AC/DC Multi-Function Clamp-On Tester
YE/CL255	2000A AC/DC TRMS Multi-Function Clamp-On Tester
YE/CL320	200A AC Clamp-On Leakage Tester
YE/CL340	400A AC Clamp-On Leakage Tester
YE/CL360	1000A AC Clamp-On Leakage Tester

*same features as CL130, except TRMS

Limited Lifetime Warranty on all Models

Model No.	Display	DC Current	AC Current	DC Voltage	AC Voltage	Resistance	Functions						Jaw opening capacity	Rating
							TRMS	Frequency	Continuity Check	Peak Hold	Data Hold	Recorder Output		
CL120	2000	-	20/200A (2 ranges)	-	300V (1 range)	-	-	-	-	-	•	-	24mm 0.95"	CAT III 300V
CL130	2000	-	200/600A (2 ranges)	-	200/600V (2 ranges)	200 Ω (1 range)	-	-	•	-	•	-	33mm 1.30"	CAT III 600V
CL150	4000	-	400/2000A (2 ranges)	40/400/750V (3 ranges)	40/400/750V (3 ranges)	400/4000/40k/400k Ω (4 ranges)	-	-	•	-	•	•	55mm 2.16"	CAT III 600V CAT II 1000V
CL220	4000	40/300A (2 ranges)	40/300A (2 ranges)	-	-	-	-	-	-	-	•	-	24mm 0.95"	CAT III 300V
CL235	4000	400/1000A (2 ranges)	400/600A (2 ranges)	40/400/600V (3 ranges)	40/400/600V (3 ranges)	400/4000 Ω (2 ranges)	•	•	•	•	•	-	33mm 1.30"	CAT III 600V
CL250	4000	400/2000A (2 ranges)	400/2000A (2 ranges)	40/400/1000V (3 ranges)	40/400/750V (3 ranges)	400/4000 Ω (2 ranges)	-	-	•	•	-	•	55mm 2.16"	CAT III 600V CAT II 1000V
CL255	4000	400/2000A (2 ranges)	400/2000A (2 ranges)	40/400/1000V (3 ranges)	40/400/750V (3 ranges)	400/4000 Ω (2 ranges)	•	•	•	•	•	•	55mm 2.16"	CAT III 600V CAT II 1000V
CL320	2000	-	20/200mA 200A (3 ranges)	-	-	-	-	-	-	-	•	-	24mm 0.95"	CAT III 300V
CL340	4000	-	40/400mA 40/400A (4 ranges)	-	-	-	-	-	-	-	•	•	40mm 1.57"	CAT III 300V
CL360	2000	-	200mA 2/20/200/1000A (5 ranges)	-	-	-	-	-	-	-	•	•	68mm 2.68"	CAT III 300V

Extech Clamp Meters

Model EX623

NEW

400A Dual Input Clamp Meters +
IR Thermometer + Non-Contact Voltage Detect

- TRMS AC Voltage & Current measurements
- Dual type K thermocouple input with Differential Temperature function
- Non-contact Voltage detector with LED alert
- Non-contact IR Thermometer with laser pointer for locating hot spots
- DC Voltage, DC Current, Resistance, Capacitance, Frequency & Duty Cycle functions
- Autoranging with manual override
- Data Hold plus fast Peak Hold for surges
- Complete with test leads, 9V battery, two Type K bead wire probes and case



Model EX623

Model MA640

600A True RMS Clamp Meters + Non-Contact Voltage Detect

- TRMS AC Voltage & Current measurements
- Non-contact Voltage detector with LED alert
- DC Voltage, DC Current, Resistance, Capacitance, Frequency, Temperature, Duty Cycle
- Relative Mode for Capacitance Zero and Offset Adjustment
- Data Hold and MIN/MAX
- Complete with test leads, Type K bead wire probe, 9V battery and carrying case



Model MA640

800A Clamp Meters

- AC/DC Current, AC/DC Voltage, Resistance, Frequency, Capacitance, Temperature, Diode Test and Continuity
- True RMS models
- 1.2" (30mm) circular jaw opening
- Backlit LCD
- Peak, Data Hold, Auto power off
- DC Current with Zero (EX730)
- Complete with test leads, 9V battery, Type K bead wire probe (EX720, EX730) and carrying case



Model EX730

200A AC/DC Mini Clamp plus MultiMeter

- High resolution to 10mA
- Measures voltage, resistance and frequency
- Fast 40 segment bargraph
- One touch auto zero for DC current measurements
- Min/Max
- Data hold and auto power off
- Complete with test leads, wrist strap, 2 AA batteries and carrying case



Model 380941

30A True RMS AC/DC Mini Clamp

- Measure low AC/DC current with resolution to 1mA DC and 0.1mA AC
- Also measures voltage
- Fast 40 segment bargraph
- One touch auto zero for DC current measurements
- Min/Max
- Data hold and auto power off
- Complete with test leads, wrist strap, 2 AA batteries and carrying case



Model 380942

SPECIFICATIONS

Model	EX623	MA640	380941	380942	EX710	EX720	EX730
AC Sensing:	TRMS	TRMS	Averaging	TRMS	Averaging	TRMS	TRMS
Display counts:	4000	6000	4000	4000	4000, backlit	4000, backlit	4000, backlit
Jaw size/ Cable size:	1.4" (36mm)	1.5" (40mm)	0.9" (23mm); 4/0 AWG	0.9" (23mm); 4/0 AWG	1.2" (30mm): 500MCM	1.2" (30mm): 500MCM	1.2" (30mm): 500MCM
AC Current:	400μA, 40A, 400A	60A, 600A	40A, 200A	400mA, 4A, 30A	800A	800A	800A
DC Current:	400μA, 40A, 400A	60A, 600A	40A, 200A	4A, 30A	---	---	800A
Max resolution:	0.1μA, 0.01A	0.01A	0.01A	AC: 0.1mA, DC: 0.001A	0.01A	0.01A	AC: 0.01A, DC: 0.1A
Basic AC/DC Accuracy:	±1.5%	±2.8%	±1.0%	±1.5%	±2.8%	±3%	AC: ±3%, DC: ±2.5%
AC/DC Voltage (Max. Res.):	AC: 600V (0.1V) DC: 600V (0.01mV)	AC: 600V (1mV) DC: 600V (0.01mV)	400V (0.1V)	400V (1V)	600V (0.1mV)	600V (0.1mV)	600V (0.1mV)
Resistance (Max Res.):	40MΩ (0.01Ω)	60MΩ (0.1Ω)	400Ω (0.1Ω)	---	40MΩ (0.01Ω)	40MΩ (0.01Ω)	40MΩ (0.01Ω)
Capacitance (Max Res.):	40mF (0.01nF)	4000μF (0.01nF)	---	---	40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
Frequency (Max. Res.):	100MHz (0.01Hz)	10kHz (0.01Hz)	1000kHz (0.01Hz)	---	4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
Temperatures (Type K):	-58 to 1832°F	-4 to 1400°F	---	---	---	-4 to 1832°F / -20 to 1000°C	-4 to 1832°F / -20 to 1000°C
IR Temperature:	-58 to 518°F	---	---	---	---	---	---
Diode/Continuity:	Yes	Yes	Continuity	---	Yes	Yes	Yes
Data Hold:	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Min/Max/Peak:	Yes	Yes	Min/Max	Min/Max	Peak	Peak	Peak
Safety Rating:	CAT III-600V	CAT III-600V	CAT III-300V	CAT III-300V	CAT III-600V	CAT III-600V	CAT III-600V

Ideal Clamp Meters

Backlit TightSight™ bottom display for viewing in dark, bright, or tight locations.

- 600A & 1000A models
- Two backlit LCD displays
- Voltage-presence warning on all functions
- Tapered jaws with hook tip
- Max/min
- Peak max/min (1ms)
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- Hinged rubber cover protects end display
- CATIV- 600V, CATIII-1000V rating



61-772

SPECIFICATIONS – 770 SERIES

Jaw Size 2" (51 mm)

Range	61-772	61-774	Accuracy
AC Current	400.0/1000 A		1.7%
DC Current	--	400.0/1000 A	1.5%
AC Voltage	400.0m/4.000/40.00/400.0/750 V		1.2%
DC Voltage	400.0m/4.000/40.00/400.0/1000 V		0.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω		1.0%
Capacitance	--	4.000μ/40.00μ 400.0μ/4.000m F	3.0%

ORDERING INFORMATION

Includes leads, alligator clip and case

SP/61-772	1000AAC TRMS Clamp Meter
SP/61-774	1000AAC TRMS Clamp Meter w/ DC Current, Capacitance
SP/61-764	600AAC Clamp Meter
SP/61-766	600AAC TRMS Clamp Meter w/ Capacitance, Frequency, 40A Range
SP/61-768	600AAC TRMS Clamp Meter w/ DC Current

SPECIFICATIONS – 760 SERIES

Jaw Size 1.42" (36 mm)

Range	61-764	61-766	61-768	Accuracy
AC Current	400.0/600 A	40.00/400.0/600 A	400.0/600 A	1.7%
DC Current	--	--	400.0/600 A	1.5%
AC Voltage	400.0m/4.000/40.00/400.0/750 V			1.2%
DC Voltage	400.0m/4.000/40.00/400.0/1000 V			0.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω			1.0%
Capacitance	--	4.000μ/40.00μ 400.0μ/4.000m F	--	3.0%
Frequency	--	0.020k to 0.400k Hz Sensitivity is 20-100 Hz(≥ 5A) 100-400Hz(≥ 10A)	--	0.1%

Megger Clampmeters

MULTI-CORE CLAMPMETER



- Measure single, two or three core cables
- No need to split wires
- Cable centering clamp
- Backlit display

MMC850

SPECIFICATIONS

AC Amps

Mode:	Single-Core Mode	Multi-Core Mode
Range:	200A	100A
Resolution:	0.1A	0.1A
Accuracy:	±1.5% ±3d	±5% ±10d
Frequency:	45Hz - 1kHz	45Hz - 400Hz

Main Jaw Capacity:	13mm (0.51")
Inner Jaw Capacity:	22mm (0.87")
Display:	3½ digit, 2000 count
Operating Temp.:	0°C to +40°C, <80% RH
Storage Temp.:	-20°C to +60°C, <70% RH
Battery:	9V Alkaline
Battery Life:	180hrs typical
Dimensions:	8.94" x 3.7" x 1.75" (227 x 94 x 44.5mm)
Safety:	IEC1010-2-032, CAT III 600V

LEAKAGE CLAMPMETER



- 0.01mA resolution for measuring earth leakage currents
- Amp ranges for standard current measurements
- Analog bargraph display for trending
- 40mm jaw opening

DCM300E

SPECIFICATIONS

Ranges:	30mA/300mA/30A/300A (50/60Hz)
Accuracy:	
30/300mA:	±1.2% rdg ±5d
0-200A:	±1.2% rdg ±5d
200-250A:	±3.0% rdg ±5d
250-300A:	±5.0% rdg ±5d
Circuit Voltage:	600V AC max.
Jaw Capability:	40mm (1.57")
Display:	3½ digit, 3200 count
Data Hold:	Indicated by DH in display
Operating Temp.:	0°C to +40°C, <80% RH
Storage Temp.:	-20°C to +60°C, <70% RH
Battery:	2 LR44 button cells
Dimensions:	2.5" x 7" x 0.9" (64 x 176 x 23mm)
Safety:	300V phase to earth, 500V phase to phase CAT III or 600V CAT II

ORDERING INFORMATION

ME/MMC850	Multi-Conductor AC Clamp Meter with carrying case
ME/DCM300E	Leakage Clampmeter with carrying case

Fluke Leakage Clamp Meter

NEW

- Measure leakage current with 1 μ A resolution, for monitoring of insulation erosion
- Measure to 60 A, for general installation needs
- Perform tests without powering down the installation or disconnecting equipment
- Advanced shielding ensures accurate results when measuring near other conductors
- Easy-to-carry, pocket-sized clamp with 40 mm (1.5") jaw size
- Handy "Display-Hold" button for capturing readings in hard-to-reach places
- Auto power-off, with warning buzzer, saves battery life
- Meets safety standard VDE0404-4 and VDE0702 for leakage current and differential current measurement of electrical appliances



360

SPECIFICATIONS

Ranges:	3 ma, 30 mA, 30 A, 60 A
Resolution:	0.001 mA, 0.01 mA, 0.01 A, 0.1 A
Accuracy:	$\pm 1\%$ rdg $\pm 5d$ (≤ 50 A) $\pm 5\%$ rdg $\pm 5d$ (> 50 A)
Frequency range:	15-150 Hz
Maximum current:	60 A rms
Digital display:	3200 count LCD
Bargraph display:	32 segment LCD
Measurement cycle:	2/sec. (digital display), 12 /sec. (bargraph display)
Range switching:	Auto-range
Environment:	0-50 °C, <80 % RH (non-condensing)
Temperature coefficient:	<0.05 % of range/°C (0-18 °C & 28-50 °C, <50 A)
Influence of external magnetic field:	0.0005 % typical (on current value of adjacent cable)
Influence of conductor position:	Within accuracy
Circuit voltage:	≤ 300 Vrms
Safety standard:	EN 61010-1, EN 61010-2-032. 300 V CAT II, Pollution Degree 2
Battery type:	3 V Lithium battery (CR2032)
Battery life:	Approx. 90 hours (continuous use)
Conductor diameter:	40 mm (1.57") max.
Dimensions:	176 x 70 x 25 mm (6.9" x 2.8" x 1")

ORDERING INFORMATION

Fluke-360 Leakage Current Clamp Meter

Hioki AC Power Monitors

Clamp-On Power HiTester

- Measure up to two 3 ϕ , 3-wire systems
- Measure up to four 1 ϕ , 2-wire systems
- 5A to 5000A range
- Simultaneous recording of demand values and harmonics
- Ideal for troubleshooting & energy management



3169

3169 SPECIFICATIONS

Systems:	1 ϕ 2-wire, 1 ϕ 3-wire, 3 ϕ 3-wire, 3 ϕ 4-wire (50/60 Hz)	Accuracy:	$\pm 0.2\%$ rdg $\pm 0.1\%$ f.s. + Clamp accuracy (for active power) With 9660: $\pm 0.3\%$ rdg $\pm 0.02\%$ FS With 9661: $\pm 0.3\%$ rdg $\pm 0.01\%$ FS With 9669: $\pm 1.0\%$ rdg $\pm 0.01\%$ FS With 9667: $\pm 2.0\%$ rdg ± 1.5 mV With 9694: $\pm 0.3\%$ rdg $\pm 0.02\%$ FS
Functions:	ACV, ACA, W, VA, VAR, PF, integrated power, Frequency, Harmonics	Harmonics:	Up to the 50th order, $\pm 3\%$ FS + measurement accuracy
Ranges:	150/300/600V With 9660: 5-100A, 4 ranges With 9661: 5-500A, 5 ranges With 9669: 100A-1kA, 3 ranges With 9667: 500A-5kA, 2 ranges With 9694: 0.5A-5A, 3 ranges	Power:	100 to 240VAC, 50/60 Hz
Power:	75W to 9MW, 108 combination patterns	Dimensions:	8.3"W x 6.3"H x 2.4"D

Power Quality Analyzer

- Measure Dips, Swells, Interruptions, Flicker, Transients
- Harmonic to the 50th order
- High frequency transient over voltage
- Detection and waveform display
- 4 current and 4 voltage channels



3196

3196 SPECIFICATIONS

Systems:	1 ϕ 2-wire, 1 ϕ 3-wire, 3 ϕ 3-wire, 3 ϕ 4-wire (50/60 Hz)
Ranges:	Ch1, Ch2, Ch3: 150/300/600V AC Ch4: 60/150/300/600V AC, 60/600V DC 9660: 50/100A, 9661: 50/500A, 9667: 500/5000A, 9669: 1000A
Measurements:	1. Transient overvoltage 2. Voltage swell, Voltage dip, Voltage interruption 3. Frequency, Voltage, Current, Voltage/Current peak, Active/Reactive / Apparent power, Power factor, DPF 4. Voltage unbalance ratio, Current unbalance ratio 5. Harmonic voltage/current/power, Inter harmonic voltage/current, Harmonic voltage current phase angle, Total harmonic/inter harmonic distortion 6. IEC flicker[Pst, Plt], K factor / $\Delta V10$ (Japan)
Internal Memory:	13MB
Interface:	Flash ATA card (up to 528MB), RS-232C, LAN (10BASE-T), HTTP server function
Power:	Rechargeable battery & AC adapter
Dimensions:	11.8"W x 8.5"H x 2.7"D

ORDERING INFORMATION

Order Clamp-on Sensor Separately

HK/3169-20	Clamp-On Power HiTester, with voltage leads
HK/3196	Power Quality Analyzer, with voltage leads
HK/9660	100A Clamp-On Sensor
HK/9661	500A Clamp-On Sensor
HK/9669	1000A Clamp-On Sensor
HK/9667	5000A Flexible Clamp-On Sensor
HK/9694	5A Clamp-On Sensor

Other Options: Printer, memory cards, PC software, carrying case

AEMC Ground Resistance Testers

Digital Ground Resistance Tester Models 4620 & 4630



▲ 4630 CE

- Measures soil resistivity (4-Point) method
- Measures ground resistance (2- and 3-Point) Fall-of-Potential method
- Step voltage tests and touch potential measurements
- Auto-Ranging: automatically selects the optimum range
- Designed to reject high levels of noise and interference
- Extremely simple to operate: connect – press – read
- LED on faceplate informs operator of high input noise, high auxiliary rod resistance and fault connections
- Large easy-to-read backlit display
- Battery powered (Model 4620)
- AC powered with rechargeable NiMH batteries (Model 4630)
- Rugged dustproof and rainproof field case
- Can also be used for continuity tests on bonding
- Color-coded terminals

Also available as full kits



Clamp-On Ground Resistance Tester Models 3711 & 3731



▲ 3731
US Patent No. 362,639



- Simple and fast clamp-on operation – no leads, no auxiliary rods or spacing requirements
- Direct reading of ground resistance from 0.1Ω to 1200Ω
- Direct reading of continuity and ground loop resistance
- Direct reading of ground leakage or phase current from 1mA to 30Arms
- Jaw design with large 1.25" (32mm) window – accommodates up to 1000MCM cables
- Auto-Off for power management
- Alarm function with adjustable set point and buzzer for quick field checks (Model 3731)
- Memory function to store 99 field measurements for later retrieval and analysis (Model 3731)
- Meets EN 61010-1, Cat. III and CE Mark
- Rugged Lexan® head and body construction resists breakage
- Alarm settings and stored memory information saved during shutdown (Model 3731)
- Patented design

Multi-Function Ground Resistance Tester Models 6470B & 6472

- 2- and 4-Wire Bond Resistance/Continuity measurement
- 3-Point Fall-of-Potential measurement with manual/automatic frequency selection
- 4-Point soil resistivity measurement with automatic calculation of Rho & user selection of Wenner or Schlumberger method
- 3-Point earth coupling measurement
- Frequency scan 40-513Hz for testing in electrically noisy environments
- Selectable test voltage of 16 or 32V up to 250mA of test current
- Automatic recognition of all electrode connections & resistance
- Stores up to 512 complete test results
- Optically isolated USB communication
- Rechargeable NiMH batteries from wall charger or vehicle power
- Rugged dustproof and rainproof field case
- Includes DataView® software for remote operation, data storage, real-time display, analysis, report generation & system configuration

Model 6472 adds:

- Manual and automatic frequency scan to 5078Hz
- Measures Ground Resistance using the 2 clamp method (selective ground testing)
- Measures Ground Impedance up to 5kHz to test lightning strike protection

Tester includes meter, NiMH batteries, optical USB cable, DataView® software, external battery charger, power cord, user manual.

Kit includes Tester, test leads, 30 ft ground lead (green), auxiliary ground electrodes, spaded lugs, 100 ft tape measure, ground tester work-book CD, carrying bag for meter, carrying bag for kit.

6470B ▶



NEW

ORDERING INFORMATION

AE/2130.43 Ground Resistance Tester Model 4620 (4-Point, Digital, Battery Powered)

AE/2130.44 Ground Resistance Tester Model 4630 (4-Point, Digital, Rechargeable Battery)

AE/2130.45 Ground Resistance Tester Model 4620 Kit

AE/2130.46 Ground Resistance Tester Model 4630 Kit

AE/2117.60 Ground Resistance Tester Model 3711 (Clamp-On)

AE/2117.61 Ground Resistance Tester Model 3731 (Clamp-On with memory and alarm)

AE/2135.01 Ground Resistance Tester Model 6470B

AE/2135.02 Ground Resistance Tester Model 6470B 3-point Kit – 150 ft leads

AE/2135.04 Ground Resistance Tester Model 6470B 4-point Kit – 500/100 ft leads

AE/2135.51 Ground Resistance Tester Model 6472

AE/2135.52 Ground Resistance Tester Model 6472 3-point Kit – 150 ft leads

AE/2135.54 Ground Resistance Tester Model 6472 4-point Kit – 500/100 ft leads

AE/2135.71* AC Current Probe Model MN82 for use with Model 6472

AE/2135.72* AC Current Probe Model SR182 for use with Model 6472

*2 probes required for two clamp testing method.

Megger® Clamp-on Testers



Ground Resistance Testers

- Easy, fast clamp-on operation – No rods or cables necessary
- Measures ground resistance from 0.025Ω to 1500Ω
- Measures ground leakage or phase current from 0.2mA to 35A
- Auto ranging with high and low alarms
- Automatic self calibration

◀ **DET20C**

APPLICATIONS

- Measure resistance and continuity of grounding loops around pads and buildings.
- Check multi-grounded systems without disconnecting the ground rod/stake under test.
- Measure leakage current flowing to ground or circulating in ground systems.
- Use on cell towers, RF transmitters and telecommunications sites.
- Inspect and verify lightning protection systems.
- Test consumer installations, including pools, spas, etc.

FEATURES

- Large LCD display screen can be read in bright sunlight.
- Large 1.36" (35mm) jaw opening to accommodate a variety of conductors.
- Indication of high noise content that may affect readings.
- Hold function for difficult to reach installations.
- Auto-off to save on battery power.
- Configurable high and low alarms with audible indication for fast field checks.
- On board storage of test results (up to 8180 records).
- Calibration check loop to insure proper operation.
- Rugged construction for regular field use.
- Lightweight storage case contains complete testing kit.

Model DET20C includes RS-232 interface and software for downloading test data. Both models include battery, carrying case & calibration loop.

ORDERING INFORMATION

ME/DET10C	Digital Earth Test Clampmeter
ME/DET20C	Digital Earth Test Clampmeter with RS-232 Interface

Hioki Battery Testers



NEW

◀ **3554**

- Test without disconnecting the batteries
- Three level indication: Pass, Warning, Fail
- Audible beeper (3555)
- PC Interface & software (3554)

Get an instantaneous check of battery condition based on internal resistance and voltage.

Model 3554 for medium and high capacity lead-acid batteries.

Model 3555 for compact storage batteries used in portable telephones and similar applications.

SPECIFICATIONS

	3554	3555
Measurement Ranges:		
Ohms:	3μΩ-3Ω	300μΩ-30Ω
# Ranges	4	3
Best resolution	1μΩ	100μΩ
Accuracy	0.8% rdg +6d	0.8% rdg +6d
Test Current	150mA-1.5mA	5mA-50μA
DC Volts	±6V, ±60V	±3V, ±30V
Best resolution	1mV	1mV
Accuracy	0.08% rdg +6d	0.1% rdg +6d
Temperature	-10 to +60°C	--
Resolution	0.1°C	--
Test Frequency	1kHz	1kHz
Max. Input	60V DC	50V DC
Comparator	Hi & low ohm limit, low volt limit (both models)	
# Limit Sets	200 stored	10 stored
Data Memory	4800 data/limit sets	--
Alert	LCD icon	LED & Beeper
Batteries	9 x AA	6 x AA
Life	up to 10 hrs	up to 18 hrs
PC Interface	USB	--
Operating Temp.	0-40°C, <80% RH non-condensing	
Dimensions	7.7 x 5.1 x 2.2" (196x130x55mm)	

SUPPLIED ACCESSORIES

3554	Pin-type test leads, USB cable, data management software, carrying case, zero adjust board, batteries, spare fuse
3555	Pin-type test leads, batteries.

ORDERING INFORMATION

HK/3554	Battery Tester (lead-acid batteries)
HK/3555	Battery Tester (portable batteries)
HK/9382	Carry case for 3555
HK/9453	4-terminal lead set
HK/9466	Remote Control Switch for 3554

Simpson Analog VOM

- Industry Standard Model 260
- Mirrored Scale
- 10A AC (260-95)
- 36 Measurement Ranges
- CAT III-600V (260-95)
- 1000V AC/DC Max (260-8)

ORDERING INFORMATION

(Test Leads Included)			ACCESSORIES		
Cat. #	Model #	Description	Cat. #	for Model	Description
SI/12388	260-8	General Purpose, Phenolic Case	SI/00043	260-8, 8P	Probe Set, threaded w/clips
SI/12391	260-8P	Relay Protected	SI/00125	260-8XI, 8XPI	Probe Leads w/Screw-On Alligator Clips
SI/12389	260-8RT	Roll Top Case			
SI/12392	260-8PRT	Relay-Protected, w/Roll Top Case	SI/00834	Any 260-8	Black nylon padded case
SI/12395	260-8XI	Yellow ABS Plastic Case	SI/00805	Any 260-8	Black Leatherette case
SI/12396	260-8XPI	Yellow Case, Relay-Protected	SI/00541	260-8XI, 260-8XPI, 9S, 9SP	250A AC Clamp
SI/12397	260-9S	Safety VOM Orange, with Case	SI/00545	260-8, 8P, 8RT, 8PRT, 9S, 9SP	250A AC Clamp
SI/12398	260-9SP	Safety VOM Protected, with Case	SI/00425	260-8X, 9	Screw-on alligator Clips



▲ 260-8

260-9S ▼



Triplet Analog VOM

- 58 Ranges & Functions (Model 60-NA)
- Withstands 5 Foot Drop
- 3 Year Warranty
- Mirrored Scale

60 ▲



ORDERING INFORMATION

TR/3145	Model 60 VOM (Orange Case)	Test Leads
TR/3151	Model 60-NA (Gray Case)	TR/79-373 Miniature Clip Leads (female jack)
Carrying Cases		TR/79-374 48" Test Leads w/ Screw-On Alligator Clips (female jack)
TR/10-823	639 Carrying Case (Top Opening)	AC Amps Clamp-On
TR/10-2739	639-A Carrying Case (Snap back Cover)	TR/3264 Model 101-G Line Separator
TR/4152	639-C Padded Cordura Carrying Case	TR/60-211 Model 10 Clamp-On AC AMP Adaptor (60, 60-NA)
		TR/79-417 6' Attachment Leads (60/ 60-NA to Model 10)

Weschler Columbia AC/DC Clamp-On Tong Test Ammeters

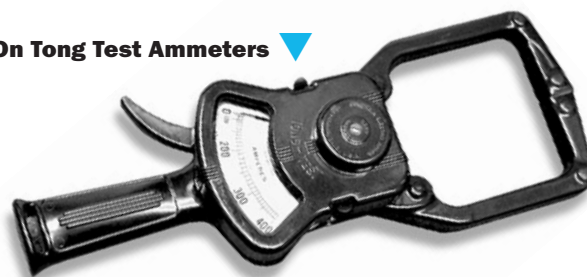
Ideal for verifying current in plating tanks, coating systems, welding equipment, motors, generators & transformers

- Instant Readings
- One Hand Operation
- No Transformers or Shunts Needed

The Tong Test Ammeter reads the true RMS (heating) value, regardless of wave shape. It contains no batteries, rectifiers, switches or electrical windings to overheat or burn out. Currents in lines up to 2300V can be measured if the cables are properly insulated. DC accuracy is 5% of full scale, AC accuracy (25-100Hz) is 2%, except 5% on ranges above 500A. Add 1% for 100-400Hz.

Plug-in Range modules: 0-100A, 0-150A, 0-200A, 0-300A, 0-400A, 0-500A, 0-600A, 0-800A, 0-1000A. The effective range can be lowered by winding two or more turns of the conductor around the tongs.

Clamp-On Tong Test Ammeters ▼



ORDERING INFORMATION

Columbia AX	for conductors up to 1 1/2" dia.
Columbia C	for conductors up to 2 1/2" dia.
Columbia D	for conductors up to 3" dia. or bus bars to 4"x1" or 4 1/2"x 1/2"

Specify range model(s) when ordering.

Hioki Testers

MULTI-FUNCTION DMMS

- AC/DC Voltage & Current
- Resistance & Continuity
- 9999 count LCD display
- Min/Max, Average & Relative values
- 4-20 mA measurement converts to 0-100% display
- Optional RS-232C package for PC data transfer



SPECIFICATIONS

DC Volts:	4 ranges, 999.9mV to 999.9V ($\pm 0.3\%$ rdg $\pm 2d$)
AC Volts:	4 ranges, 999.9mV to 999.9V ($\pm 1.2\%$ rdg $\pm 5d$) 40-500Hz
Ohms:	6 ranges, 400.0 Ω to 40.00M Ω ($\pm 0.6\%$ rdg, $\pm 3d$)
DC Current:	6 ranges, 400.0 μ A to 10.00A ($\pm 0.2\%$ rdg, $\pm 3d$)
AC Current:	6 ranges, 400.0 μ A to 10.00A ($\pm 1.2\%$ rdg, $\pm 5d$) 50-2kHz
Other Functions:	Capacitance, Data hold, continuity ($<10\Omega$), diode check 3805: TRMS AC, freq to 50kHz, J&K thermocouples
Ranging:	Auto or Manual
Bar Display:	41 segment
Sample Rate:	3/sec (digital), 13/sec (bar)
Dimensions:	3" x 6.6" x 1.3" (76x167x33mm)
Accessories:	Test leads 3851-10, holster, battery

ORDERING INFORMATION

HK/3804-50	4-Digit DMM
HK/3805-50	4-Digit TRMS DMM

PHASE DETECTOR



- LED & Buzzer Indicate Phase Direction
- No Electrical Connection
- Live Wire Check (R-S, S-T)
- Battery Check & Auto Shut Off

SPECIFICATIONS

Detection Method:	Electrostatic induction
Voltage Range:	70-600VAC, 50/60Hz
Max. Wire Size:	0.67" (17mm) dia., insulated wire
Standards:	Cat III, 600V
Dimensions:	2.76"W x 2.95"H x 1.18"D
Lead Length:	27" (0.7mm)

ORDERING INFORMATION

HK/3120	Voltage Detector, batteries included
HK/3129	Phase Detector, with carrying case & AA batteries
HK/3246	Pencil HiTester, battery included
HK/3280-10	Clamp-On HiTester, with leads, battery & carrying case
HK/3280-20	TRMS Clamp-On HiTester, with leads, battery & carrying case

VOLTAGE DETECTOR



- Detect AC Voltage in Insulated Wires

SPECIFICATIONS

Voltage Range:	70-600VAC, 50/60Hz
Indication:	Red LED and continuous beep
Battery Check:	Green LED
Operating Temperature:	0 to 40 °C, <80%RH (non-condensing)
Standards:	CAT IV 600V, indoor use
Dimensions:	5.9" L x 0.7" dia (149 x 18.5mm)

CLAMP-ON HITESTERS



- Slim Body for Easy Clamping in Narrow Spaces
- Independent-opening Double-lever Jaw
- Right or Left Hand Operation
- 4199 Count LCD
- True RMS Measurement (3280-20)

3280-20



SPECIFICATIONS

Function	Range (Accuracy)
AC Amps:	3280-10: 42 / 420 / 1000A (50/60Hz; $\pm 1.5\%$ rdg $\pm 5d$), 3280-20: 42 / 420 / 1000A (45-66Hz: $\pm 1.5\%$ rdg $\pm 5d$) (40-45Hz or 66Hz-1kHz: $\pm 2.0\%$ rdg $\pm 5d$)
DC Volts:	420m / 4.2 / 42 / 420 / 600V ($\pm 1.3\%$ rdg $\pm 4d$)
AC Volts:	4.2 / 42 / 420 / 600V (50-500Hz, $\pm 2.3\%$ rdg $\pm 8d$)
Ohms:	420 / 4.2k / 42k / 420k Ω ($\pm 2.0\%$ rdg $\pm 4d$), 4.2M Ω ($\pm 5.0\%$ rdg $\pm 4d$), 42M Ω ($\pm 10.0\%$ rdg $\pm 4d$)
Continuity:	420 Ω ($\pm 2.0\%$ rdg $\pm 6d$), buzzer $<50\Omega$
Wire Size:	1.3" (33mm) max diameter
Allowable Current:	2000A AC rms max continuous
Overload Protection:	DCV/ACV: 600V DC/AC rms; Ω /Continuity: 250V DC/AC rms
Operating Temperature:	0 to 40 °C, <80%RH (non-condensing)
Standards:	CAT III 600V(AC A), CAT II 600V(AC/DC V)
Dimensions:	2.2"W x 6.9"H x 0.6"D